



# PATENT SPECIFICATION

Application Date: March 5, 1946.

609,069

No. 6811/46.

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Index at acceptance:—Class 50, B1(a: i: n), B4.

## PROVISIONAL SPECIFICATION

### Improvements in or relating to Firelighters

I, CHARLES EDWARD BARLOW, a British Subject, of 603, Wilbraham Road, Chorlton-cum-Hardy, Manchester, 21, do hereby declare the nature of this invention to be as follows:—

This invention relates to firelighters of the kind made from sawdust, wood shavings or the like impregnated with naphthalene, anthracene or the like.

As such firelighters constitute a hard homogeneous mass it is found difficult to ignite the same in use and the object of the present invention is to produce such firelighters in a form which can be more readily ignited.

The invention comprises firelighters moulded or otherwise formed from wood shavings, sawdust or similar material impregnated with inflammable substances such as naphthalene, wax, anthracene or the like or an admixture of the same in which a piece of tow or like fibrous material is moulded or otherwise attached thereto to constitute a wick to which in use a light can be applied and readily cause a blaze to envelop the mass. The firelighters are moulded to any desired shape and size and may, if desired, be formed with air passages to facilitate combustion. Usually the mould cavities are first filled with the sawdust, wood chippings or the like in which a strand of fibrous material is embedded before the perforated cover is placed over the mould cavities so that when the mould has been immersed in the molten naphthalene or the like and the mould contents impregnated and set, the fibrous material adheres thereto with an end or ends projecting from the unit firelighters so that the touch of a light causes the whole mass to blaze.

In carrying the invention into effect according to one convenient manner firelighters are moulded in the form of truncated cones from sawdust, wood chippings or the like impregnated with molten naphthalene, anthracene, wax or the like inflammable material or an admixture of any two or more of the same, such

impregnation preferably being effected in the mould after the mould cavities have been filled with the sawdust or the like.

In practice a comparatively large mould box is used having rows of mould cavities in line extending from end to end. The wide end of each cavity is at the top in which a half round channel running from end to end of the box on the top is formed which passes through the top of each series of cavity walls to receive complemental ribs formed on the underside of a perforated cover plate. The latter is formed with a series of holes each coinciding with the axis of one of the mould cavities, the floor of each of which is provided with a drain hole in register with the respective hole in the cover plate.

In use the mould cavities are filled with sawdust or the like and the cover placed in position with the ribs resting in the recesses formed to receive them so that they form a diametrically disposed channel across the contents of each mould cavity.

A strand of tow or like yarn is then threaded zig-zag through all said cavities passing through the holes in the cover plate and floor after which the mould box is immersed in the molten material which penetrates into the mould cavities.

The box is then withdrawn, and after draining and cooling, the solidified firelighters are withdrawn, the strand of tow being cut to leave an end projecting from the air channel formed in the wide end which constitutes the base of the firelighter.

The mould box is preferably formed with a jacket through which cold water is circulated to reduce the time of cooling.

It is to be understood that I do not confine myself to any particular shape and size of firelighter, the essential feature being the incorporation of the tow or like wick to facilitate igniting the lighter as a whole.

Dated this 2nd day of March, 1946.

MARKS & CLERK.

[Price 2/-]

## COMPLETE SPECIFICATION

## Improvements in or relating to Firelighters

I, CHARLES EDWARD BARLOW, a British Subject, of 603, Wilbraham Road, Chorlton-cum-Hardy, Manchester, 21, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to firelighters of the kind made from sawdust, wood shavings or the like impregnated with naphthalene, anthracene or the like.

As such firelighters constitute a hard homogeneous mass it is found difficult to ignite the same in use and the object of the present invention is to produce such firelighters in a form which can be more readily ignited.

The invention comprises firelighters moulded or otherwise formed from wood shavings, sawdust or similar material impregnated with inflammable substances such as naphthalene, wax, anthracene or the like or an admixture of the same, in which a piece of tow or like fibrous material is moulded or otherwise secured therein to constitute a wick which projects into a cavity extending across the bottom of the firelighter, to which in use a light can be applied and readily cause a blaze to envelope the mass. The firelighters are moulded to any desired shape and size.

In carrying the invention into effect according to one convenient manner firelighters are moulded in the form of truncated cones from sawdust, wood chippings or the like with a wick therein, impregnated with molten naphthalene, anthracene, wax or the like inflammable material, such impregnation preferably being effected in the mould after the

mould cavities have been filled with the sawdust or the like and the wicks.

The accompanying explanatory drawings show a moulded firelighter of the form described in my concurrent Application No. 6810/46 (Serial No. 609,068) constructed in one convenient form in accordance with this invention. Figure 1 being an elevation, Figure 2 an elevation at right angles to Figure 1, and Figure 3 an inverted perspective plan view.

The firelighter *a* is of frusto conical form with a hollow or cavity *b* extending across its base and with a wick *c* which projects into the cavity and also from the top of the firelighter. If desired, the wick may project from the bottom only of the firelighter.

I am aware that it has heretofore been proposed to provide a moulded firelighter with a wick extending from the top thereof.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A moulded firelighter of the kind referred to having a wick therein which projects into a cavity extending across the bottom of the firelighter.

2. A moulded firelighter as claimed in claim 1, in which the wick projects also from the top of the firelighter.

3. A moulded firelighter of the kind referred to substantially as described and as illustrated in the accompanying drawings.

Dated this 22nd day of February, 1947.  
MARKS & CLERK.

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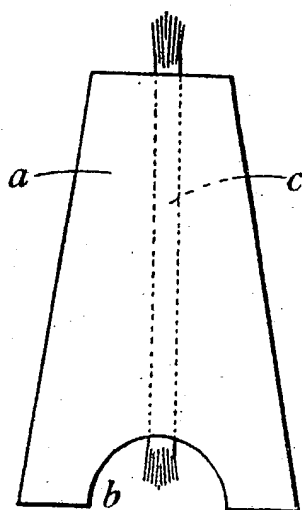


Fig. 1.

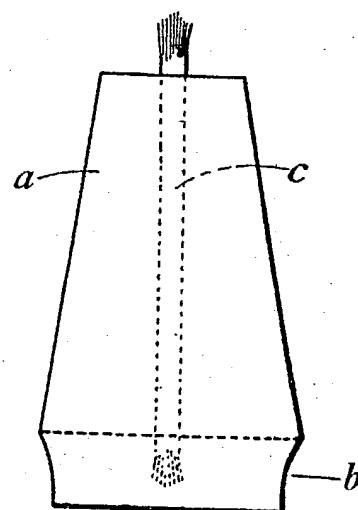


Fig. 2.

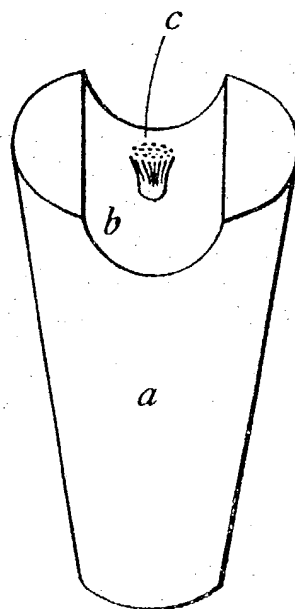


Fig. 3.

[This Drawing is a reproduction of the Original on a reduced scale.]